	Level			irst cycle			
Program	Name of the program A			l study programs			
COURSE							
Course title	Course title Statistics I						
Course code	Semester	Co	urse status		ECTS	Contact hours (L+AE+LE)	
AMAT260	IV	Ma	ndatory cours	se	5	2+1+2	
Lecturer							
Course Goals	An introduction to statistics						
Learning	- application of statistics						
Outcomes	omes application of statistics						
COURSE CONTENT							
- Examples of statistical problems. Statistical data. Concept and classification of statistical characteristics.							
Frequency distributions of features. Tabular and graphic representation of characteristics.							
- Measures of central tendency. Middle (arithmetic, geometric, harmonic). Median. Mod. Location measures							
(I quartile, III quartile).							
- Measures of variability. Span. Interquartile. Standard deviation. Moments. Data standardization. Shape							
measures (asymmetry and roundness coefficients). A measure of deviation from statistical independence in							
a contingency table.							
distribution.							
- Point estimations of parameters of normally distributed basic sets (method of moments and method of							
maximum credibility).							
- Interval estimation of parameters. Parametric statistical tests. Hypothesis testing of arithmetic mean,							
proportion, total and variance. Test power and OC curve.							
- Determining the size of the sample for the implementation of the test. Comparison of parameters of basic							
sets. Estimation of the difference of arithmetic means.							
- Testing of hypotheses about the difference of arithmetic means.							
- Statistical software SPSS.							
[1] Sosic, I.: Primijenjena statistika, Skolska knjiga, Zagreb, 2004							
[2] Sosic, I., Serdar, V.: Uvod u statistiku, Skolska kjiga, Zagreb, 2002							
[5] Wonnacou, T.H., Wonnacou, K.J.: Introductory statistics for business and Economics, 4/ed, John Wiley & Sons, New York, 1990							
[4] Berenson MI Levine DM Krehhiel T C · Basic husiness statistics Pearson Education International							
9/e. New Yersey. 2004							
STUDENT WORKLOAD (hours in a semester)							
Lectures	30	Tutorial	45	Individual wo	ork 40	Total 115	
GRADING					REM	IARKS	
Criterion		Maximum	Minimum				
		points	points	ļ			
Midterm exam (Tests)		50	27,5				
Final exam		50	27,5				
Total		100	55				